

Appointment

From: Gessner, Lauren [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=0E7B04B30D744FA79C41C960B61C2E19-GESSNER, LA]
Sent: 12/3/2018 8:34:24 PM
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Subject: CEH PACT Meeting

Attachments: St. Joseph Lead presentation.pptx

Location: RTP - Room D101. Dial in number: **Ex. 6 Personal Privacy (PP)**
Ex. 6 Personal Privacy (PP)

Start: 1/9/2019 4:00:00 PM

End: 1/9/2019 5:00:00 PM

Show Time As: Tentative

Recurrence: Monthly
 the first Wednesday of every 1 month(s) from 11:00 AM to 12:00 PM

Hello everyone,

Rescheduled from 1/2/19

The Children's Environmental Health Partner Alliance Coordination Team meeting standard agenda will be:

CEH PACT Agenda:

1. Roll Call – 5 min

2. ORD Science Update – 10-15 mins

Tim Shafer (NHEERL) - New Alternative Methods for Developmental Neurotoxicity Testing: Moving from development to evaluation of assays

- *What is the children's environmental health issue that our research is addressing?*

This research is addressing the problem that developmental neurotoxicity (DNT) hazard information exists for only a fraction of the thousands of chemicals to which humans are exposed.

- ***What did we learn?***

The past decade has seen the development of a battery of in vitro tests to screen and prioritize DNT hazard, with small groups of chemicals, and shown that several of these assays are suitable for screening.

- ***When will we know more?***

In the next 2-3 years, a global effort is being made to screen a much larger number of compounds in these assays, which will allow evaluation of how a battery of assays will perform for DNT screening and prioritization.

- ***Provide citations to papers.***

Frank CL, Brown JP, Wallace K, Mundy WR and Shafer TJ. Developmental neurotoxicants disrupt formation of cortical networks on microelectrode arrays: Screening 86 compounds in the neural network formation assay. Toxicol Sci. 2017. 160, 121-35.

Frank CL, Brown JP, Wallace K, Wambaugh, JF, Shah I and Shafer TJ. Defining toxicological tipping points in neuronal network development. Toxicol Appl Pharmacol. 2018. 354, 81-93.

Bal-Price A, Hogberg HT, Crofton K, Mardas Daneshian M, FitzGerald RE, Fritsche E, Heinonen T, Bennekou SH, Klima S, Piersma AH, Sachana M, Shafer TJ, Schilter B, Terron A, Monnet-Tschudi F, Viviani, Waldmann T, Westerink RHS, Wilks MF, Witters H, Zurich M-G and Marcel Leist M. Recommendation and application of in vitro alternative test readiness criteria: exemplified for developmental neurotoxicity (DNT). Accepted in ALTEX on 2/23/18.

Harrill JA, Freudenrich TF, Wallace K, Ball K, Shafer TJ and Mundy WR. Testing for developmental neurotoxicity using a suite of assays for key cellular events in neurodevelopment. Toxicol Appl Pharmacol. 2018. 354, 24-39.

Sachana M, Bal-Price A, Crofton KM, Bennekou SH, Shafer TJ, Behl M, Terron A. International regulatory and scientific effort for improved developmental neurotoxicity testing. Toxicol Sci. Accepted 20-Aug-18.

3. Regional Science Update – 10-15 mins

Emily Albano (R7) - Region 7's St. Joseph, Missouri Lead Initiative

- ***What is the children's environmental health issue that our research is addressing?***

The children of St. Joseph, Missouri, face increased lead exposure due to lead paint in many of St. Joseph's older homes. Over 15% of children in this historic city have elevated blood lead levels. Through a multi-pronged outreach and education initiative, Region 7 is working to reduce lead exposure and empower parents, health care providers and renovators keep kids safe. The presentation will share the work Region 7 has done and plans to do.

- ***What did we learn?***

We'll be developing lessons learned and ideas for making this kind of outreach successful at the end of the project.

- ***When will we know more?***

The project is on-going, but hope to be able to measure the impact over the course of the next year.

- ***Provide citations to papers.***

N/A

4. Administrative Updates – 5 min

2019			
January	NHEERL – Tim Shafer <i>(New Alternative Methods for Developmental Neurotoxicity Testing: Moving from development to evaluation of assays)</i>	Region 7 – Emily Albano <i>(Region 7's St. Joseph, Missouri Lead Initiative)</i>	

Check out our [*Intranet site*](#) for more CEH related information including past presentations, new research, upcoming conferences, and more!